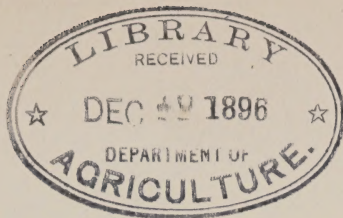


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No. 210.

United States Department of Agriculture,

DIVISION OF PUBLICATIONS,

Washington, D. C., December 10, 1896.

INSECTS AFFECTING DOMESTIC ANIMALS.

"Insects Affecting Domestic Animals: An account of the species of importance in North America, with mention of related forms occurring on other animals, by Herbert Osborn, Professor of Zoology and Entomology, Iowa Agricultural College, Ames, Iowa (Bulletin No. 5, new series, Division of Entomology)," lately issued by the Department of Agriculture, discusses "particularly those insects which, by direct attack upon domesticated animals, render themselves an injurious element to the stock breeder, poultry raiser, and keeper of various animals for pleasure or profit."

Each species is treated as fully as possible, its past history, extent of injury, habits, and life history being given, and, finally, methods of preventing or relieving its injuries are described.

In order to furnish a convenient key to the different species and enable the different forms occurring upon one animal to be seen together, a table has been arranged according to animals infested; and to offer some means of relief to those whose stock may be infested, a chapter is devoted exclusively to a discussion of remedial measures, methods of prevention, and notice of animals which have parasites in common.

This last chapter is to the practical stock breeder the main point on which information is desired, although it is most important for him to know the extent the insect can be injurious, the time and manner of its attack, and the animals it may affect.

To prevent is frequently much easier than to remedy, and if careful attention is given to the matter practical immunity for the herd may be secured from many of the pests enumerated in the bulletin. This is true of all pests incapable of flight even if other herds in the neighborhood are infested, and especially is this true with internal parasites which are difficult to reach when lodged.

Remedial treatment is to be given in one of two forms, i. e., repellant or destructive, the first being by means of mechanical devices, or repelling odors the second by the use of substances fatal to the parasite.

The edition of the bulletin is limited to 1,000 copies, and it is not for general distribution by the Department of Agriculture; copies, however, can be secured from the Superintendent of Documents, Union Building, Washington, D. C., for 20 cents.

